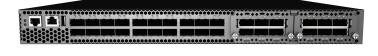


AS6701-32X 40GbE Data Center Switch Bare-Metal Hardware





Product Overview

Edge-cor

NETWORKS

The Edge-Core AS6701-32X switch is a Top-of-Rack (TOR) or spine switch for high-performance data centers. In a compact 1RU form factor, the switch provides line-rate L2 and L3 switching across up to 32 x QSFP ports, supporting up to 32 x 40 GbE connections or 104 x 10 GbE connections. The AS6701-32X can be deployed as a TOR switch supporting 10 GbE or 40 GbE server connections, or as a spine switch, supporting 10 GbE or 40 GbE spine interconnects. The switch provides 20 fixed QSFP ports and two module slots, each capable of supporting a 6 x QSFP option module or a future NPU module for application processing. The AS6701-32X is a bare-metal switch loaded with the Open Network Install Environment (ONIE), which supports the installation of compatible independent switchOS offerings.

Key Features and Benefits

- Cost-effective, bare-metal switch infrastructure for data center fabric.
- Up to 32 x 40GbE ports in compact 1RU form factor.
- Modular design allowing cost-effective build-out of an infrastructure with switching capacity added as required.
- 20 x QSFP switch ports, each supporting 40 GbE or 4 x 10 GbE via breakout cables.
- Two module slots, each supporting 6 x QSFP module or future NPU processing module.
- Layer 2 or Layer 3 forwarding of 2.56 Tbps full duplex.
- Supports hot/cold aisle with port-to-power and power-to-port airflow SKUs.
- All ports on front; PSUs and fans on rear.
- Hot-swappable, load-sharing, redundant AC or -48V DC PSUs.
- 4+1 redundant, hot-swappable fans.
- Energy Efficiency: 267 W typical power consumption.
- Hardware switch pre-loaded with Open Network Install Environment (ONIE) for automated loading of compatible independent switchOS software.
- Compatible with Cumulus®Linux® r2.0.1 and later switchOS software from Cumulus Networks™.
- Compatible with PicOS[™] r2.5 and later version from Pica8 Inc.



AS6701-32X Product Specifications

| Features | | | |
|--|--|--|--|
| Ports | Power | | |
| Switch Ports: 20 QSFP fixed ports: 40 GbE or 4 x 10 GbE per port 2 expansion module slots, for optional modules: 6 QSFP: 40 GbE or 4 x 10 GbE per port NPU module (future) Total switch capacity: 32 x 40 GbE; or 104 x 10 GbE Management ports on port side: 1 x RJ-45 serial console 1 x RJ-45 100/1000BASE-T management port 1 x USB Type A storage port | PSUs: 2 redundant, load-sharing, hot-swappable AC or -48VDC Input Voltage: 90 to 264 VAC at 50-60 Hz48 to -72 VDC. Input Current: Max 6A @100/120 VAC, 3 A @200/240 VAC, 10 A @-72 VDC PSU Efficiency: Up to 93% for AC PSUs Max Power: 315 W, line-rate, 32 x 40G SR4, AC Typical Power: 267 W, line-rate, 32 x 40G DAC, AC Regulatory EMI | | |
| | CE Mark (EN55022 Class A) | | |
| Key Components Switch Silicon: Broadcom BCM56850 Trident II 1.28 Tbps CPU Module: Freescale P2020 dual-core 1.2GHz in AS6701 2GB DDR3 SDRAM ECC memory 8 MB NOR Flash, 2 GB NAND Flash 8 GB SD Card | FCC Part 15 Class A VCCI Safety CB, EN 60950 UL/CUL Environmental: Temperature: IEC 68-2-14 | | |
| Performance | Drop: ISTA 2A | | |
| Switching Capacity: 2.56 Tbps full duplex, with packets>200 bytes Forwarding Rate: 1.44 Bpps MAC Addresses: Up to 288 K | RoHS-6 Compliant Country of Origin: Taiwan (TAA Compliant) | | |
| VLAN IDs: 4 K | Warranty | | |
| Jumbo frames (9216 Bytes) L3 Routes IPv4 64K, IPv6 20K Packet Buffer Size: 12 MB shared buffer pool Latency (RFC2544): 600 to 720 ns cut thru | Please check www.edge-core.com for the warranty terms in your country. The warranty provides return-to-factory hardware replacement for a three year period in North America. | | |
| LEDs | | | |
| 40G QSFP Port LEDs: Link Status, Activity Ethernet Management Port LED: Link Status, Activity Console Port LED: Link Status System LEDs: Diagnostic, Locator | For More Information | | |
| | To find out more about Edge-Core Networks products and | | |
| Supported Optics and Cables QSFP Ports: | solutions, visit www.edge-core.com | | |
| 40GBASE-CR4 DAC; 0.5 m to 7 m; passive and active 40GBASE-CR4 DAC to 4 x SFP+ 10GBASE-CR DAC; 0.5 to 7 m 40GBASE-SR4: Up to 100 m over OM3 MMF, 150 m over OM4 MMF 40GBASE-SR4 to 4 x 10GBASE-SR: 100 m over OM3, 150 m OM4 40GBASE-LR4: Up to 10 km over SMF | About Edge-Core Networks Edge-Core Networks is in the business of providing innovative network solutions. In the service provider network, in the data center or in the cloud, Edge-Core Networks delivers the software and systems that transform the way the world connects. Edge-Core Networks serves customers and partners worldwide. Additional information can be found at www.edge-core.com. | | |
| Software | Edge-Core Networks is a subsidiary of Accton Technology | | |
| Switch is loaded with Open Network Install Environment (ONIE) software installer Compatible with the following switch software solutions: Cumulus® Linux® r2.0.1 and later from Cumulus Networks™ PicOS™ r2.5 and later from Pica8 Inc. | Corporation, the leading network ODM company. The Edge-Core data center switches are developed and manufactured by Accton. | | |
| | To purchase Edge Core solutions, please contact your | | |

To purchase Edge-Core solutions, please contact your Edge-Core Network representatives at +886 3 563 8888 (HQ) or +1 (877) 828-CORE (877-828-2673) or authorized resellers.

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Dimensions (WxDxH): 440 x 470 x 44 mm (17.3 x 18.5 x

Weight: 8.4 kg (18.52 lbs), total with 2 modules

Operating Humidity: 5% to 95% non-condensing

Operating Temperature: 0°C to 40°C (32°F to 104°F) Storage Temperature: -40°C to 70°C (-40°F to 158°F)

Physical and Environmental

Fans: 4+1 redundant, hot-swappable

1.73 inches)

Ordering Information

Base Model: AS6701-32X 20-Port 40GbE QSFP switch with ONIE software Installer

| Model Number | CPU | Module | PSU | Airflow | Region (power cord) |
|--------------------|------------------|------------------------|-----------------------------|-----------------------|---------------------|
| 6701-32X-O-AC-F-US | P2020 CPU Module | dual 6-port 40G module | dual AC PSUs | port-to-power airflow | N. America |
| 6701-32X-O-AC-B-US | P2020 CPU Module | dual 6-port 40G module | dual AC PSUs | power-to-port airflow | N. America |
| 6701-32X-O-AC-F-EU | P2020 CPU Module | dual 6-port 40G module | dual AC PSUs | port-to-power airflow | Europe |
| 6701-32X-O-AC-B-EU | P2020 CPU Module | dual 6-port 40G module | dual AC PSUs | power-to-port airflow | Europe |
| 6701-32X-O-AC-F-UK | P2020 CPU Module | dual 6-port 40G module | dual AC PSUs | port-to-power airflow | UK |
| 6701-32X-O-AC-B-UK | P2020 CPU Module | dual 6-port 40G module | dual AC PSUs | power-to-port airflow | UK |
| 6701-32X-O-AC-F-JP | P2020 CPU Module | dual 6-port 40G module | dual AC PSUs | port-to-power airflow | Japan |
| 6701-32X-O-AC-B-JP | P2020 CPU Module | dual 6-port 40G module | dual AC PSUs | power-to-port airflow | Japan |
| 6701-32X-O-48V-F | P2020 CPU Module | dual 6-port 40G module | dual -48V DC PSUs | port-to-power airflow | |
| 6701-32X-O-48V-B | P2020 CPU Module | dual 6-port 40G module | dual -48V DC PSUs | power-to-port airflow | |
| PSU-AC-400-F | | | 400W AC Power Supply FRU | port-to-power airflow | no power cord |
| PSU-AC-400-B | | | 400W AC Power Supply FRU | power-to-port airflow | no power cord |
| PSU-48V-400-F | | | 400W AC Power Supply FRU | port-to-power airflow | no power cord |
| PSU-48V-400-B | | | 400W AC Power Supply FRU | power-to-port airflow | no power cord |
| FAN-1U-1x1B-F | | | Fan FRU | port-to-power airflow | |
| FAN-1U-1x1B-B | | | Fan FRU | power-to-port airflow | |

| Model Number | Description |
|------------------|--|
| 6701-32X-SVC-RTF | AS6701-32X Annual Hardware Service, Return-to-Factory (after warranty) |
| 6701-32X-MOD-40G | AS6701-32X option module FRU, 6x40G QSFP ports |
| CBL-PWR-US | AC Power Cable - US (125V/13A, 1830mm, C13) – required with Power Supply FRUs only |
| CBL-PWR-EU | AC Power Cable - Europe (250V/10A, 1830mm, C13) - required with Power Supply FRUs only |
| CBL-PWR-UK | AC Power Cable - UK (250V/10A, 1830mm, C13) – required with Power Supply FRUs only |
| CBL-PWR-JP | AC Power Cable - Japan (250V/12A, 1830mm, C13) – required with Power Supply FRUs only |